

Title (en)  
Two-beam gas analyzer

Title (de)  
Zweistrahl-Gasanalysator

Title (fr)  
Analyseur de gaz à deux faisceaux

Publication  
**EP 1640708 A1 20060329 (DE)**

Application  
**EP 04022907 A 20040925**

Priority  
EP 04022907 A 20040925

Abstract (en)  
Dual beam gas sensor has an infra-red source (12), a cell (16) filled with gas to be analyzed and a second cell (18) filled with reference gas. A detector (20) on the opposite side of the cells detects radiation transmitted through them. A diaphragm wheel (14) allows alternate transmission of radiation through the analysis cell and the reference cell with at least two dark phases. An independent claim is included for a method for determination of gas components using the sensor.

IPC 8 full level  
**G01N 21/35** (2006.01); **G01N 21/37** (2006.01)

CPC (source: EP)  
**G01N 21/37** (2013.01); **G01N 33/0036** (2013.01); **G01N 21/3518** (2013.01)

Citation (search report)

- [X] DE 2003247 A1 19710729 - LEITZ ERNST GMBH
- [A] US 3162761 A 19641222 - KARL LUFT
- [A] US 3937962 A 19760210 - FAULHABER REIMAR, et al
- [DA] EP 0780681 A2 19970625 - SIEMENS AG [DE]

Citation (examination)

- EP 0745840 A2 19961204 - SHIMADZU CORP [JP]
- EP 0076886 A1 19830420 - MAIHAK AG [DE]

Cited by  
DE102009021829A1; DE102009059962A1; WO2011076614A1; EP1847827A1; CN109001140A; CN104237126A; CN102590126A; CN102439424A; DE102009059962B4; CN102713566A; WO2010133566A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

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